

09/660005

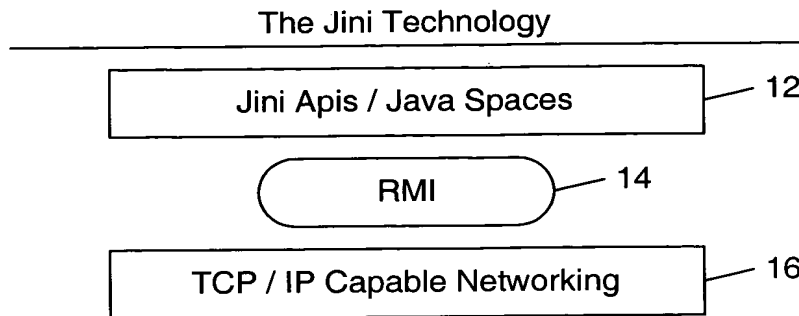


Fig. 1  
(Prior Art)

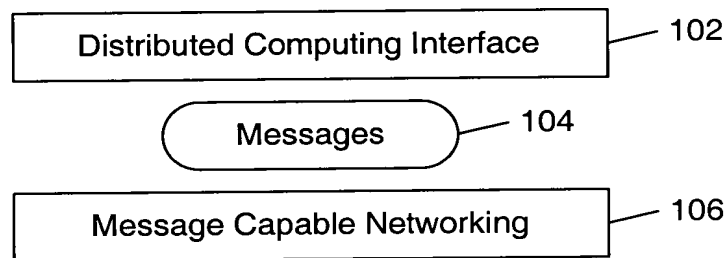


Fig. 2

DocId: 50003920

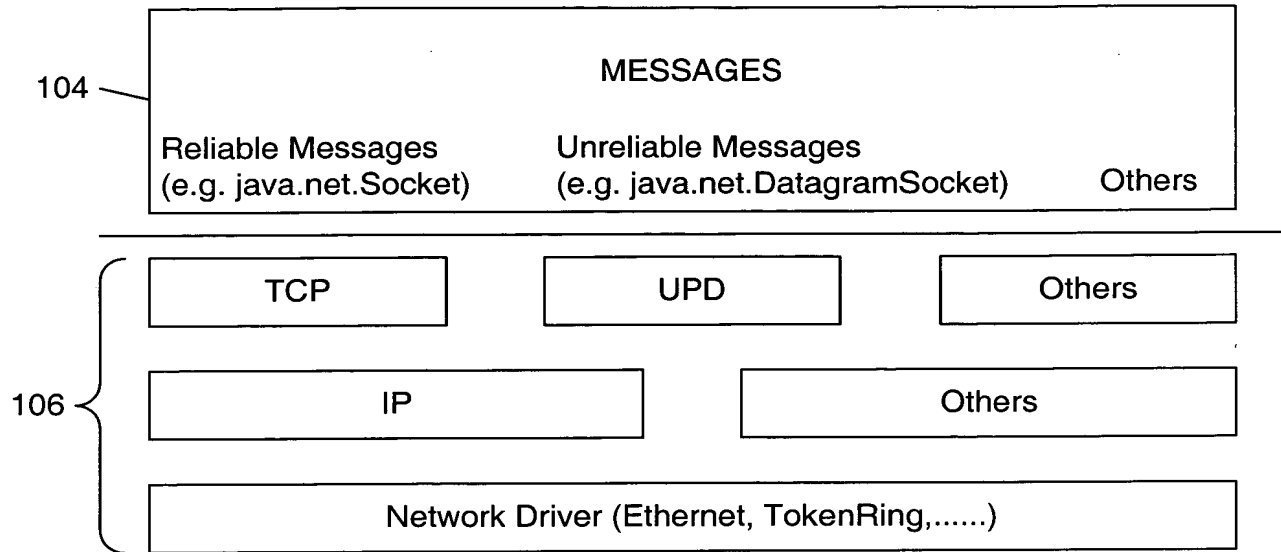


Fig. 3

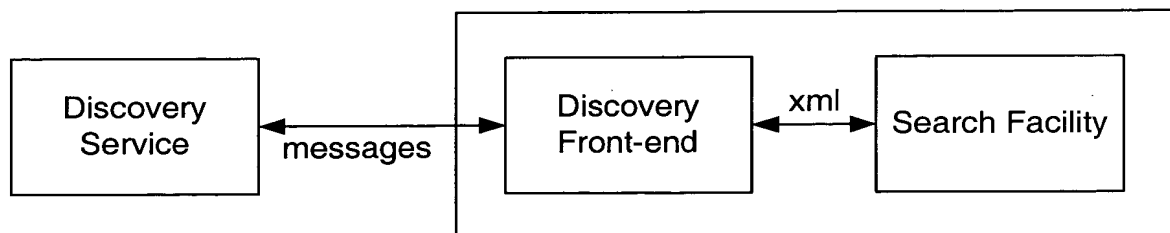


Fig. 4

## Dynamic

## Client Profile

**Claim and Release (a lease) Find (an object)**

## Write and Take (an object) Notify on Write Public Apis

## Dynamic XML to / from Objects

## Send / Receive Byte Messages

## Connection Transport

## Static

## Client Profile

## Static XML Message Definitions

## Send / Receive Byte Messages

## Connection Transport

**Fig. 5**

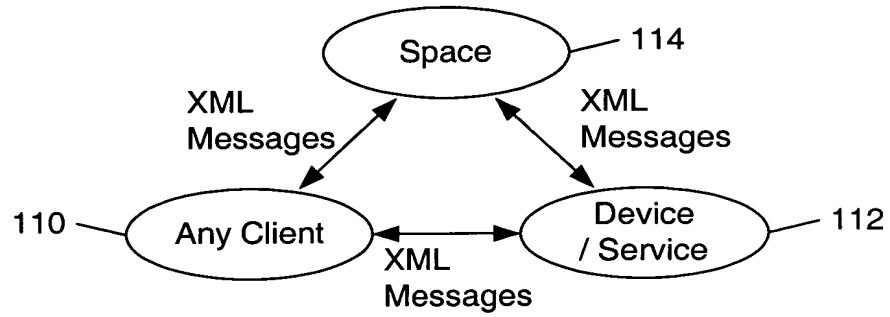


Fig. 6

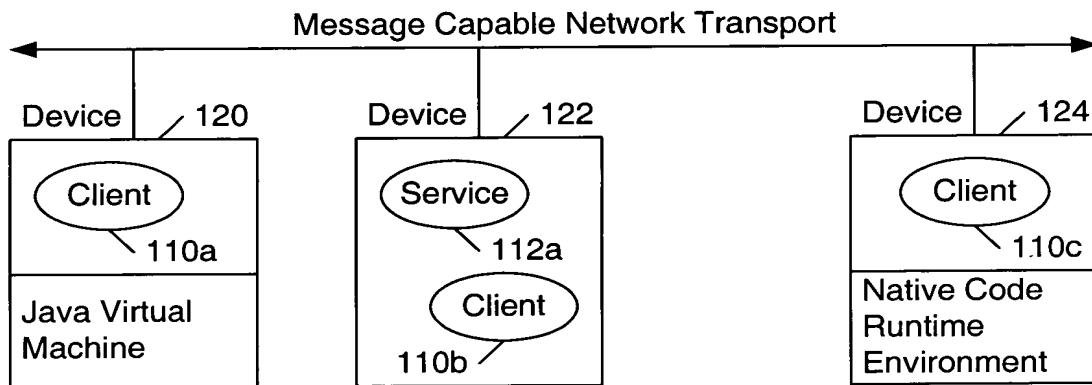


Fig. 7

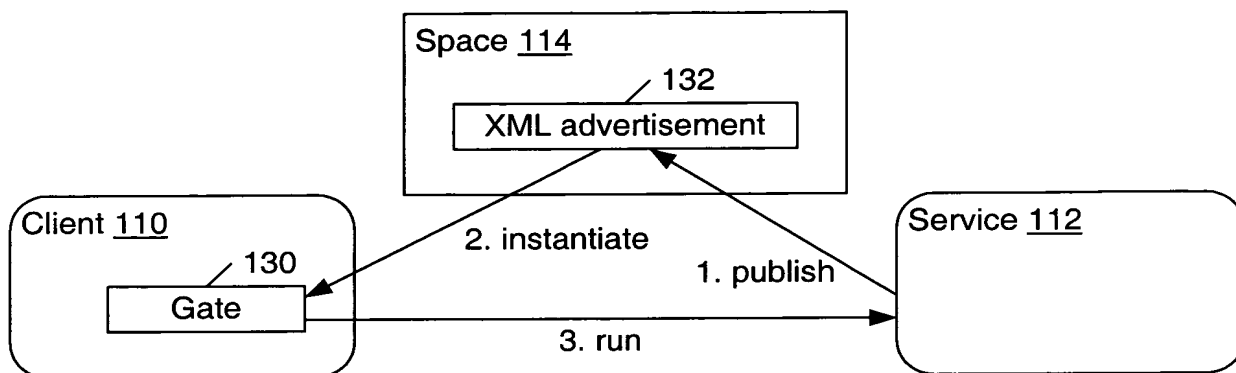


Fig. 8

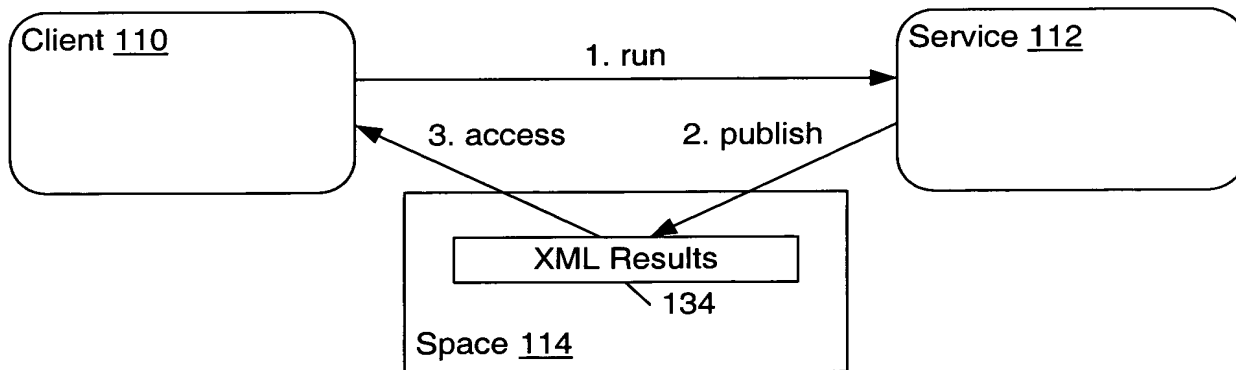


Fig. 9

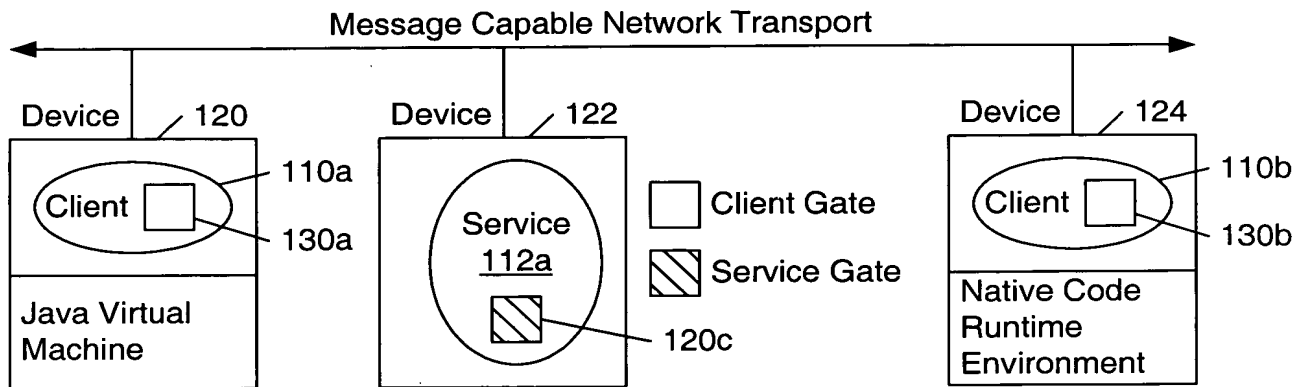


Fig. 10a

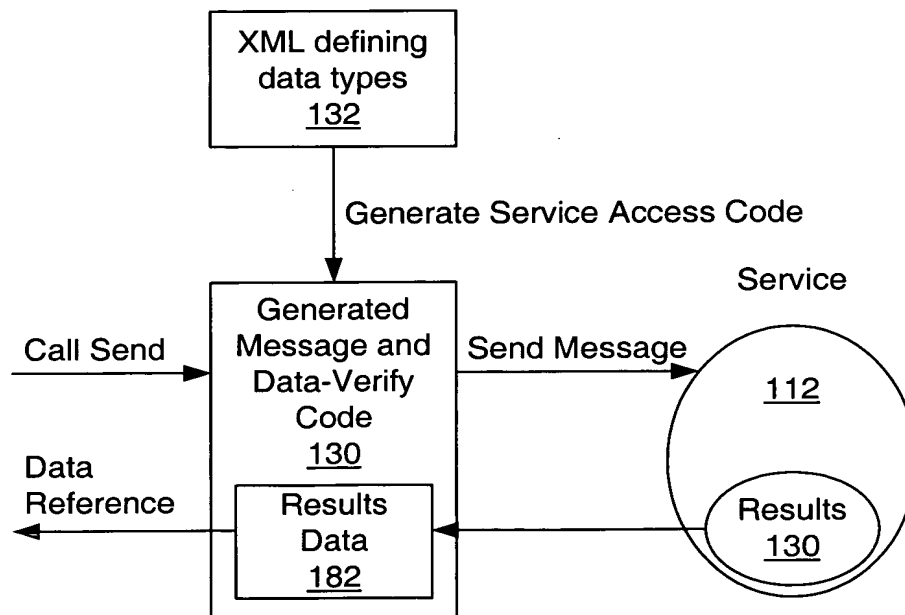
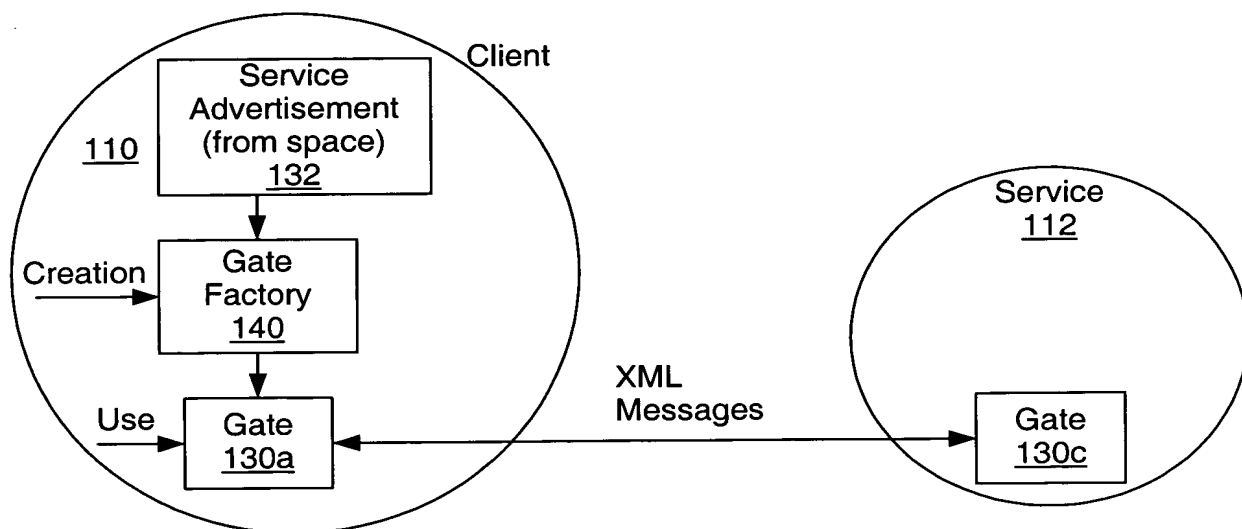


Fig. 10b



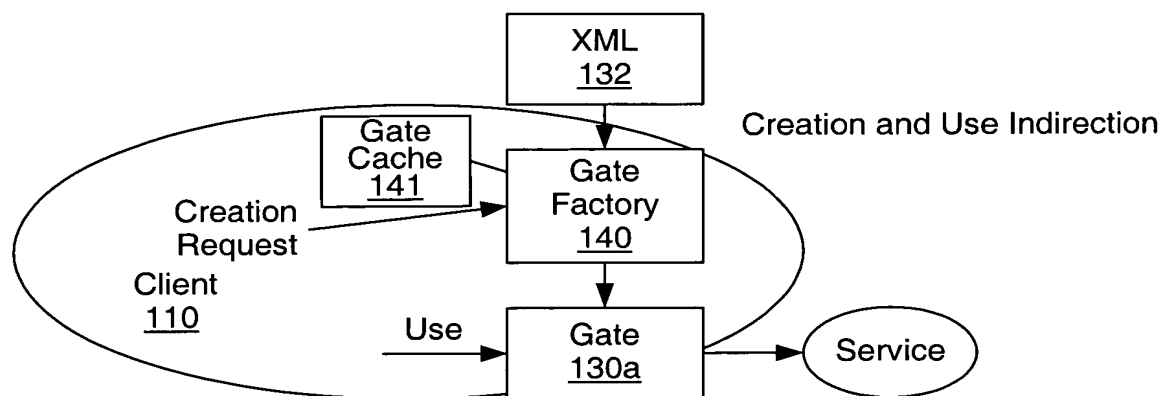


Fig. 11c



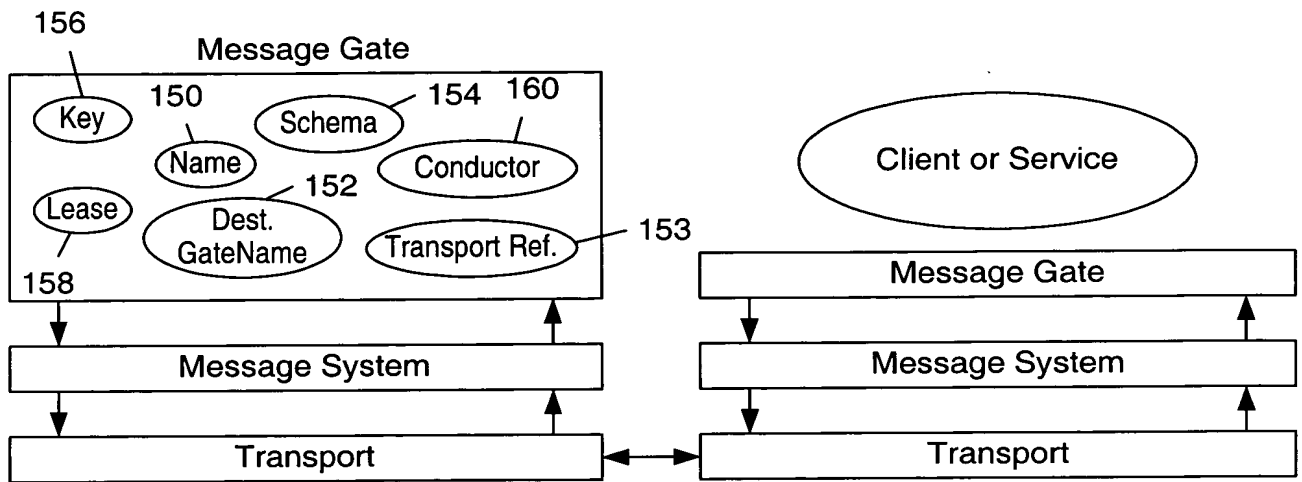


Fig. 12

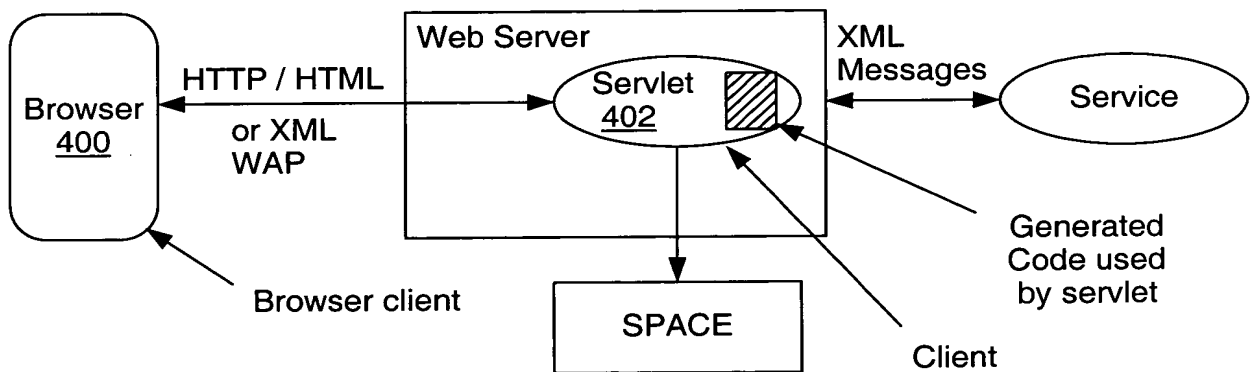


Fig. 13

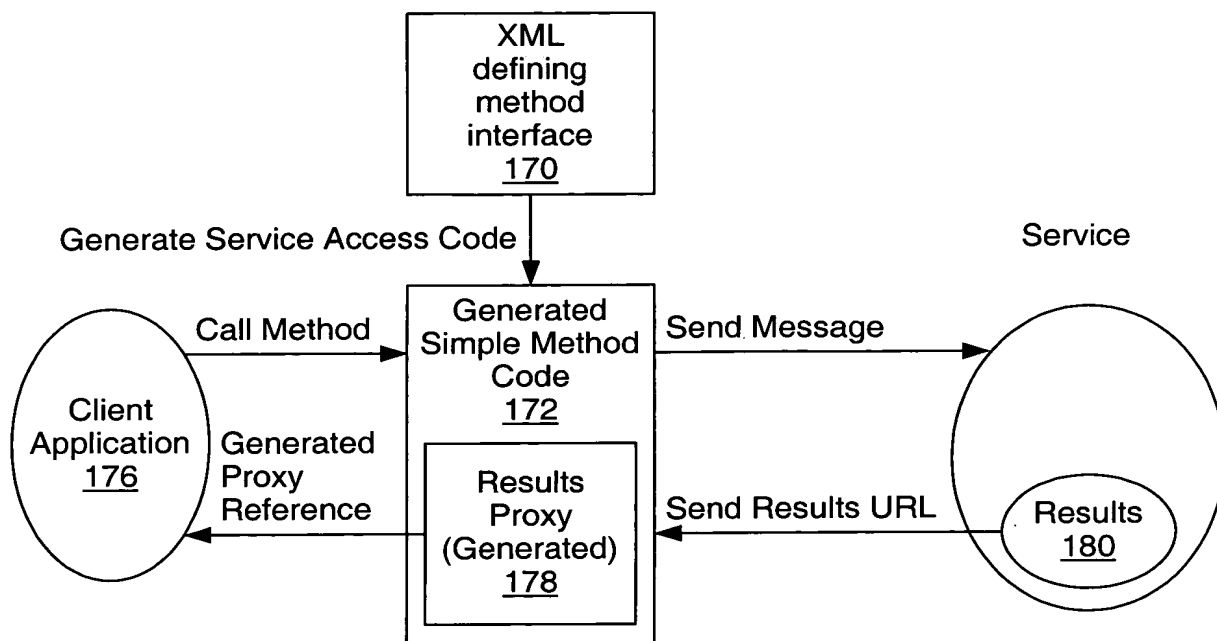


Fig. 14

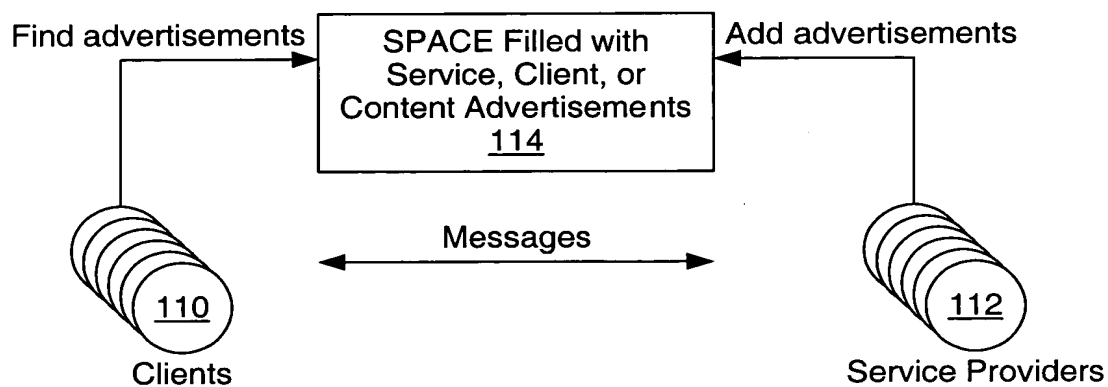


Fig. 15

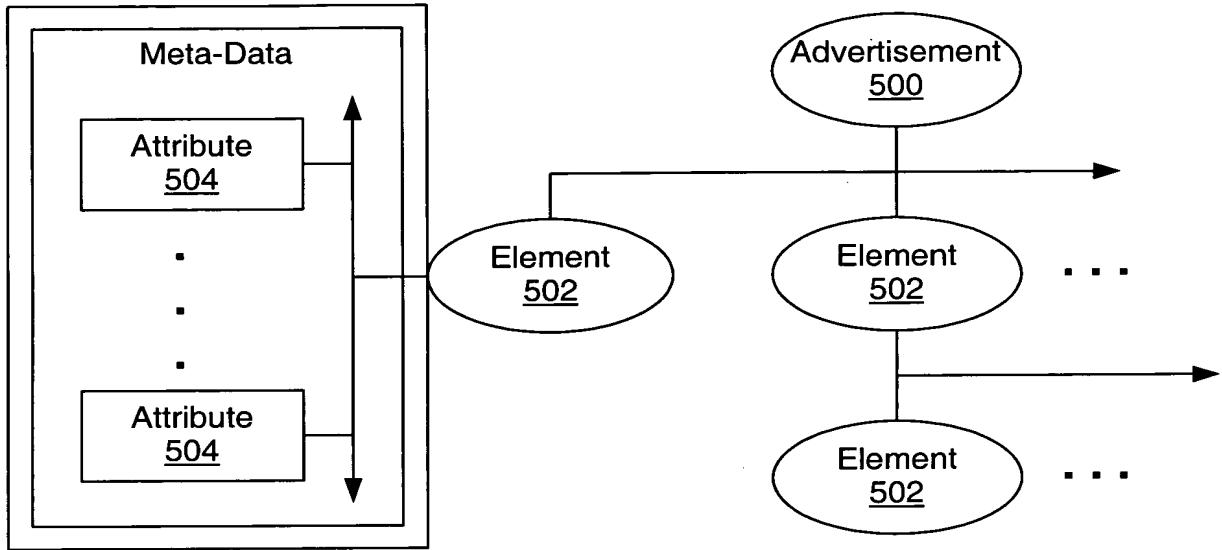


Fig. 16

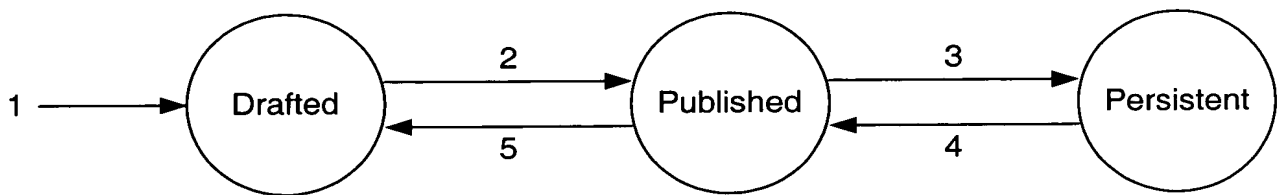
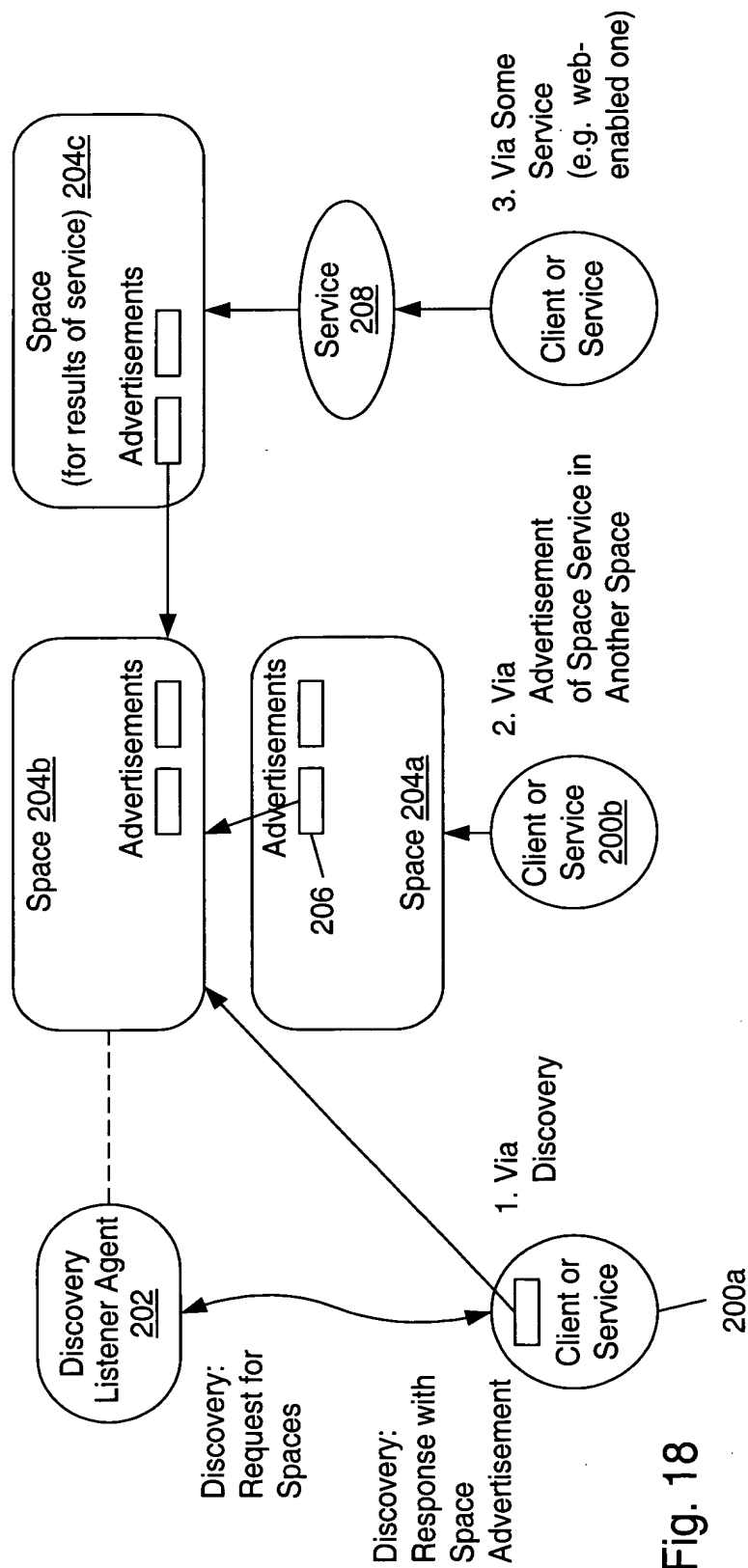


Fig. 17

00660005-091300  
002760-50009960



**Fig. 18**

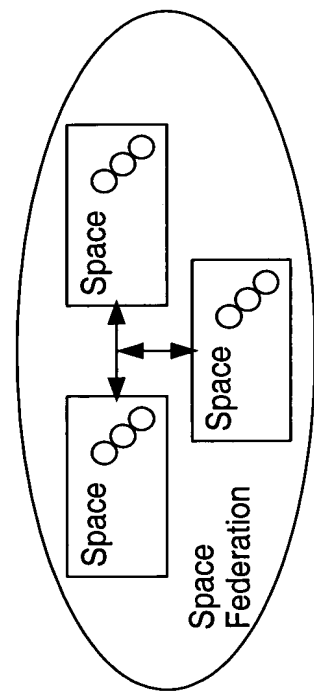


Fig. 19

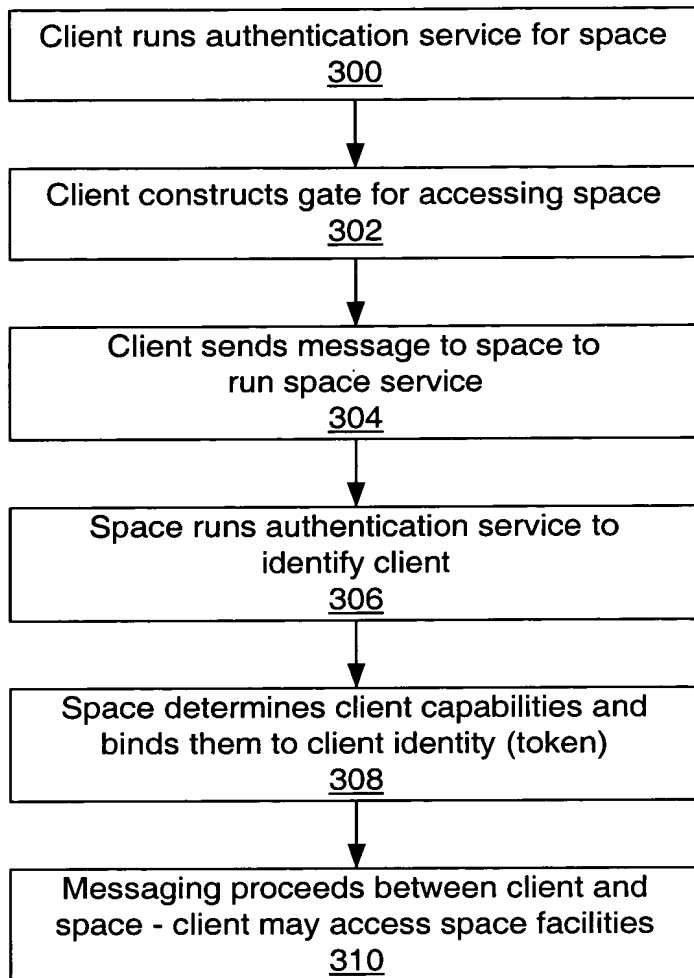


Fig. 20

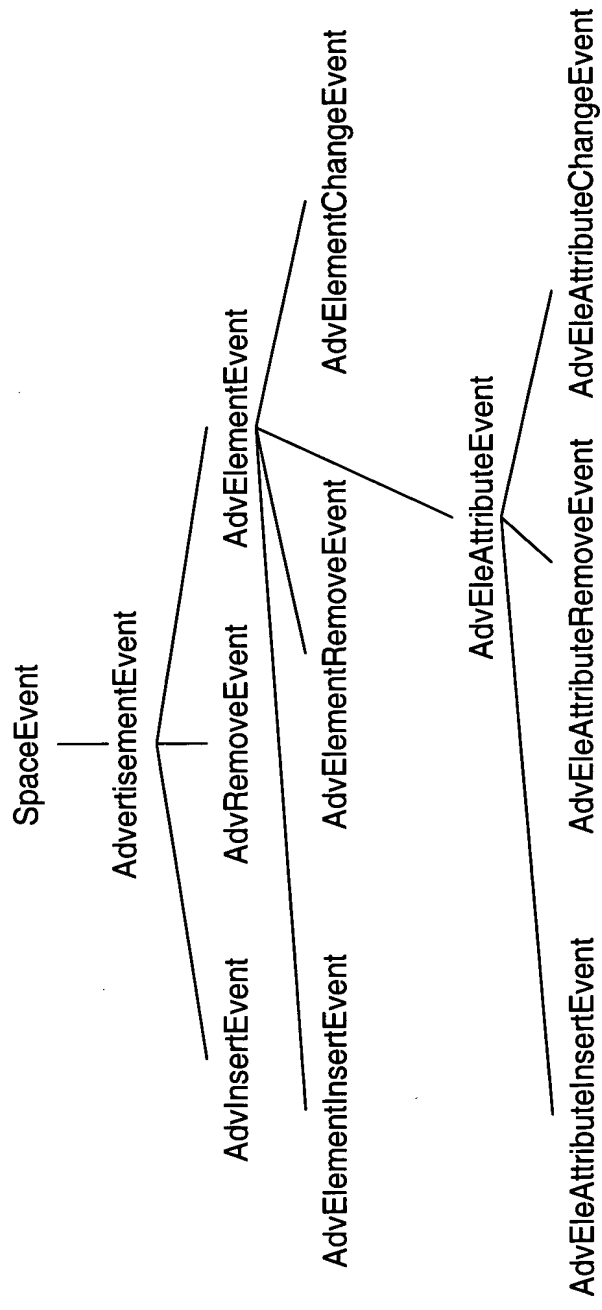


Fig. 21

```

graph TD
    320[Client selects service advertisement  
published in space  
320] --> 322[Client sends message to space requesting  
instantiation of service  
322]
    322 --> 324[Space verifies request  
324]
    324 --> 326[Space obtains lease for service  
326]
    326 --> 328[Space sends lease and service  
advertisement to client  
328]
    328 --> 330[Client runs authentication service specified  
in advertisement  
330]
    330 --> 332[Client constructs gate to access service  
332]

```

Diagram 350 illustrates a system where two clients interact with a default space. The central box, labeled 'Default Space advertising additional spaces 350', contains a hatched oval labeled '352'. Two 'Client' ovals on the left point to this box. An arrow points from the hatched oval '352' to a box labeled 'OtherSpace' on the right.

Fig. 23

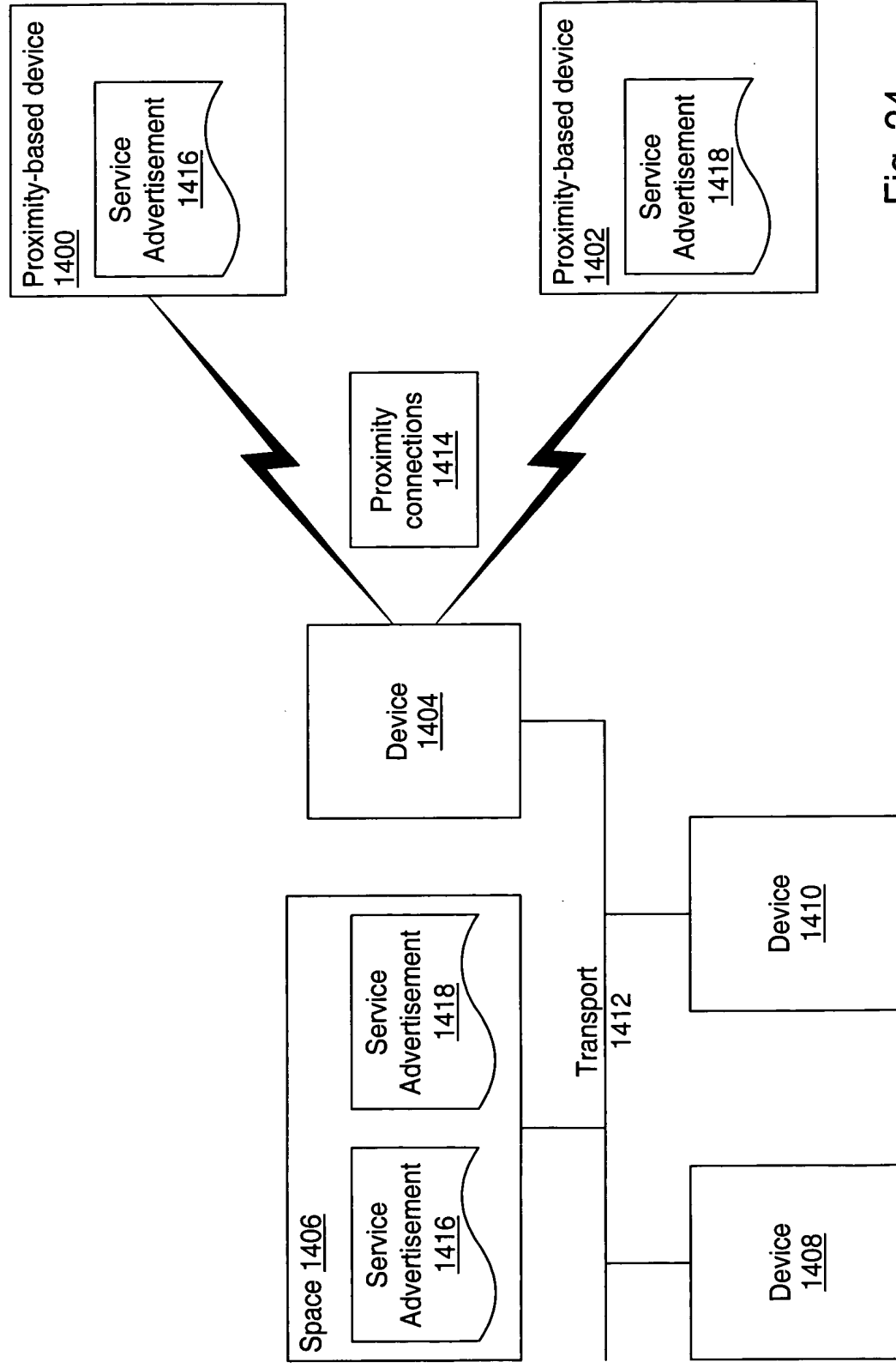


Fig. 24



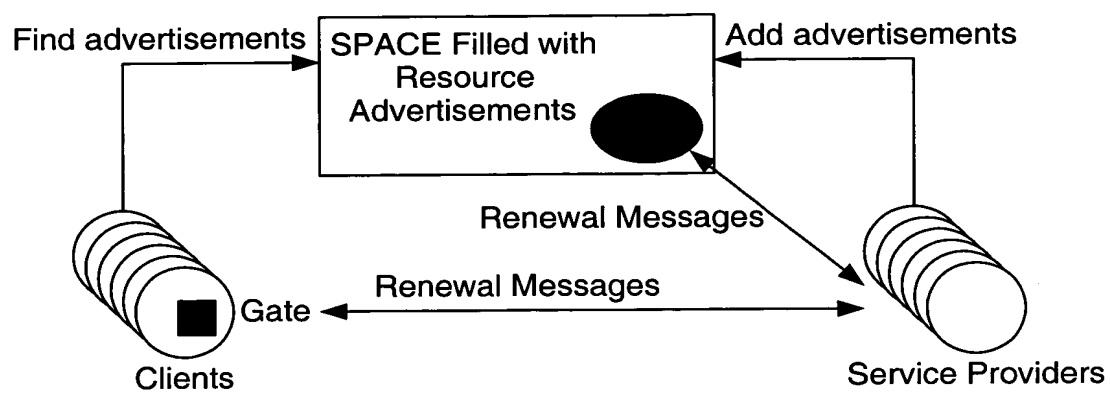


Fig. 25

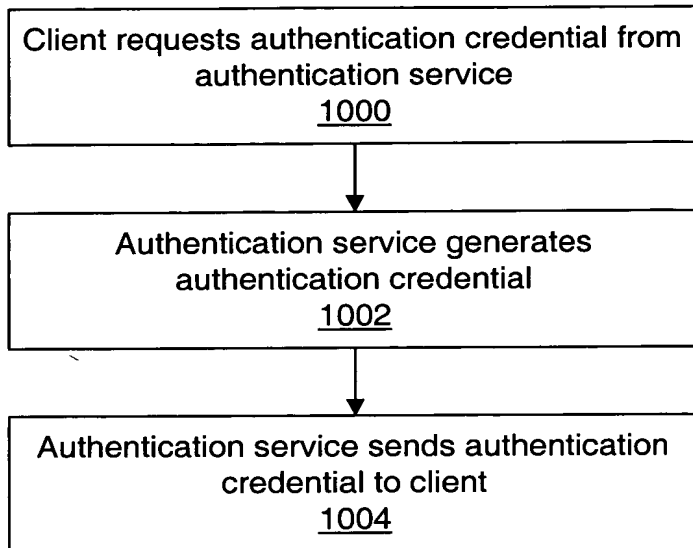


FIG. 26a

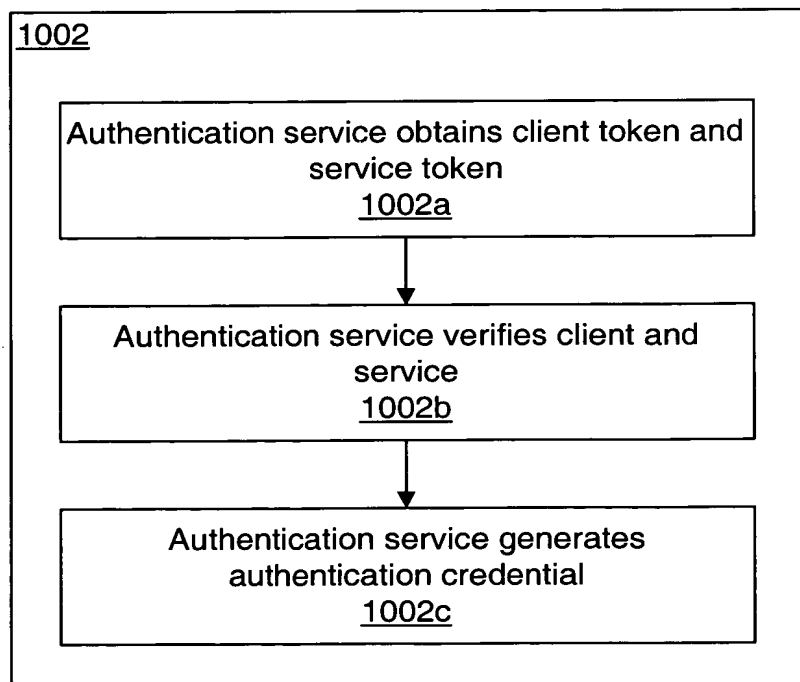


FIG. 26b

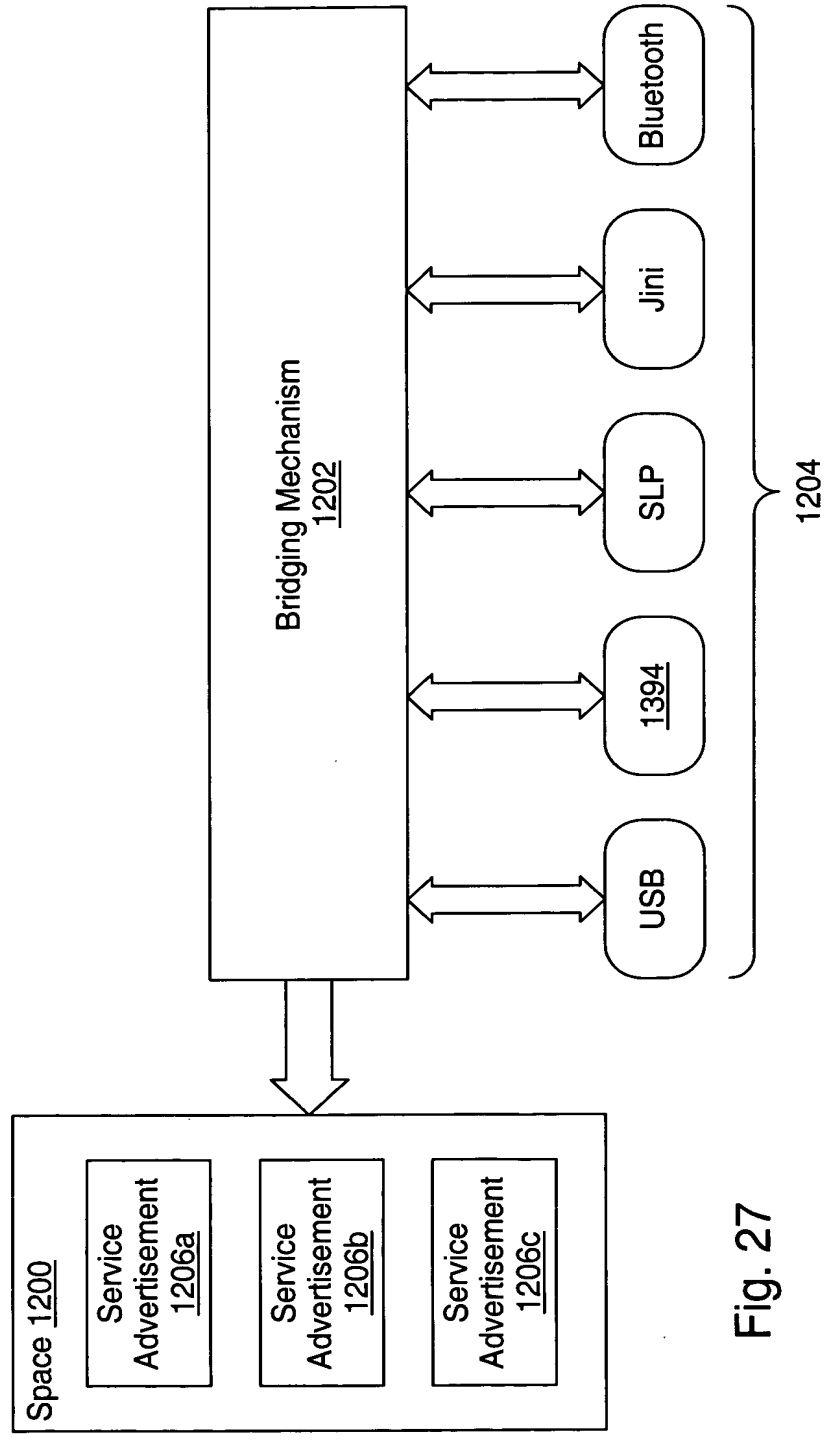


Fig. 27







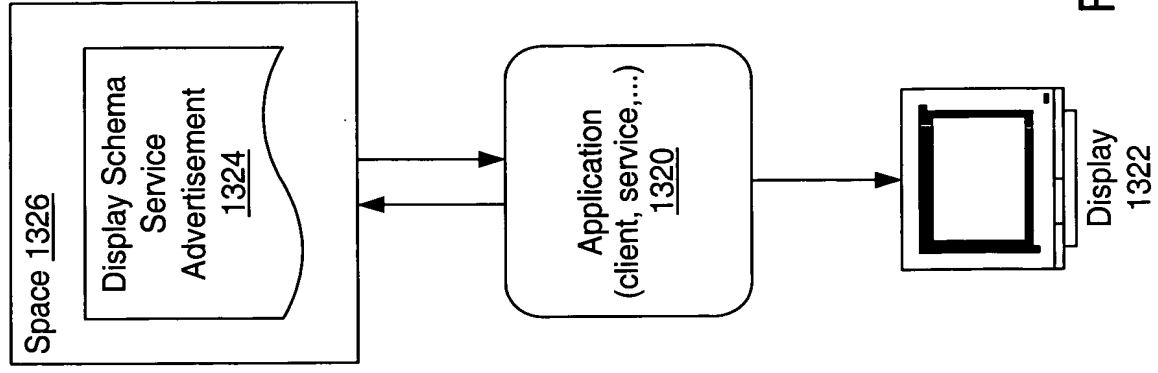
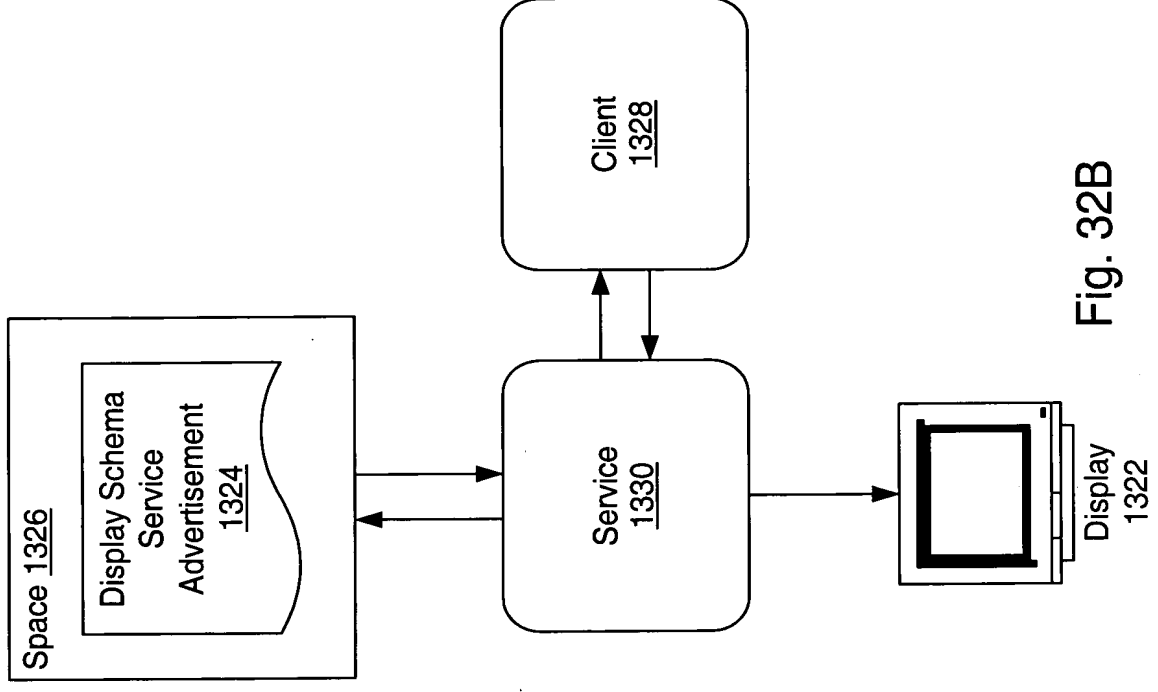


Fig. 32A



**Fig. 32B**

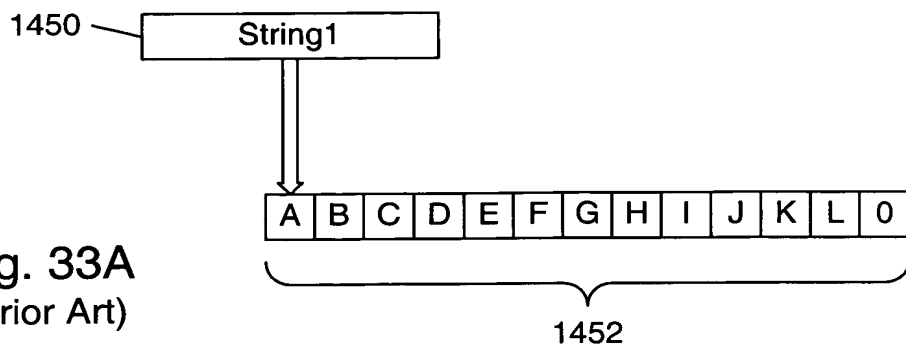


Fig. 33A  
(Prior Art)

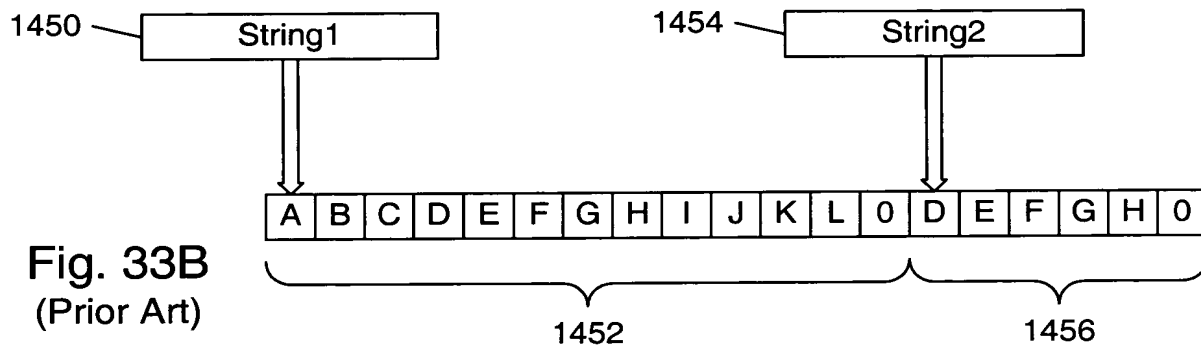


Fig. 33B  
(Prior Art)

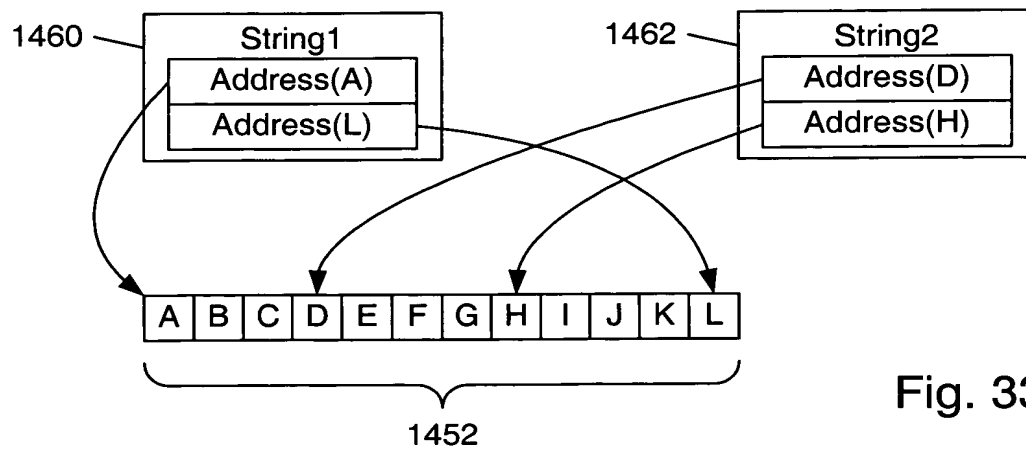


Fig. 33C



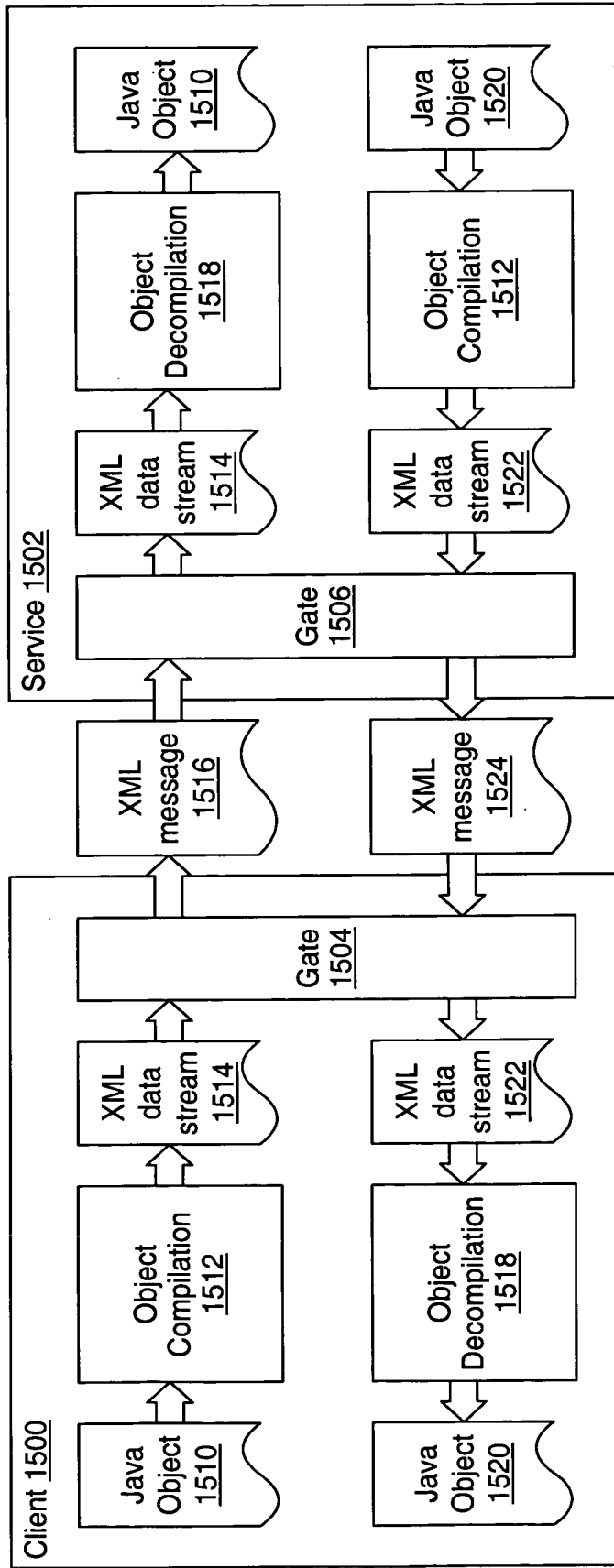


Fig. 34

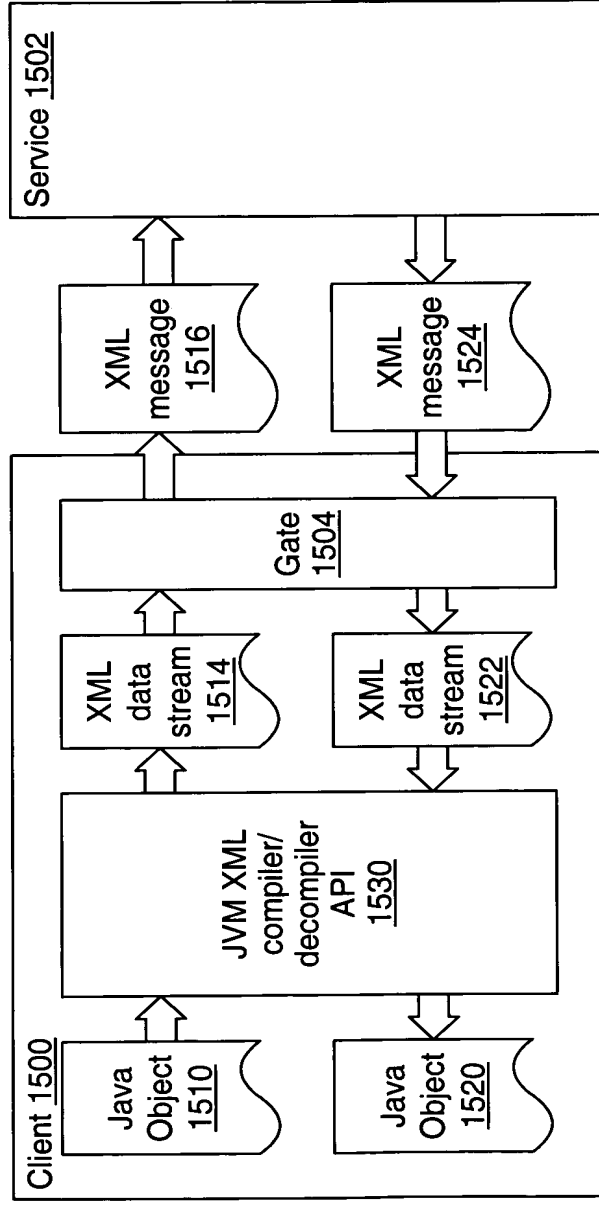


Fig. 35a

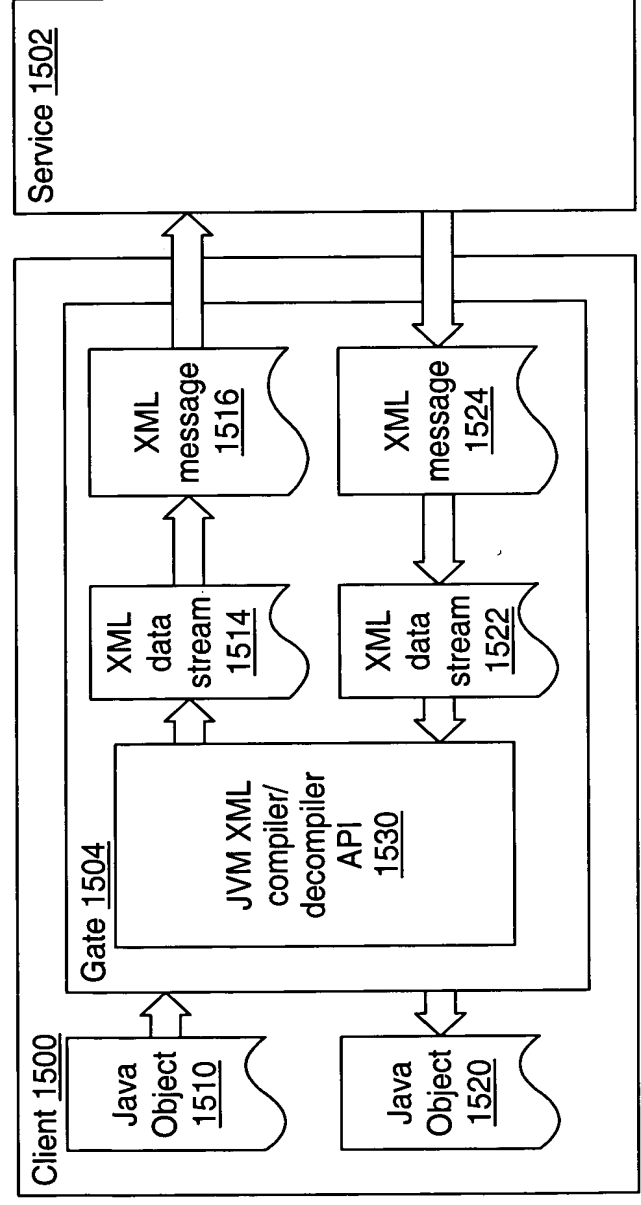


Fig. 35b

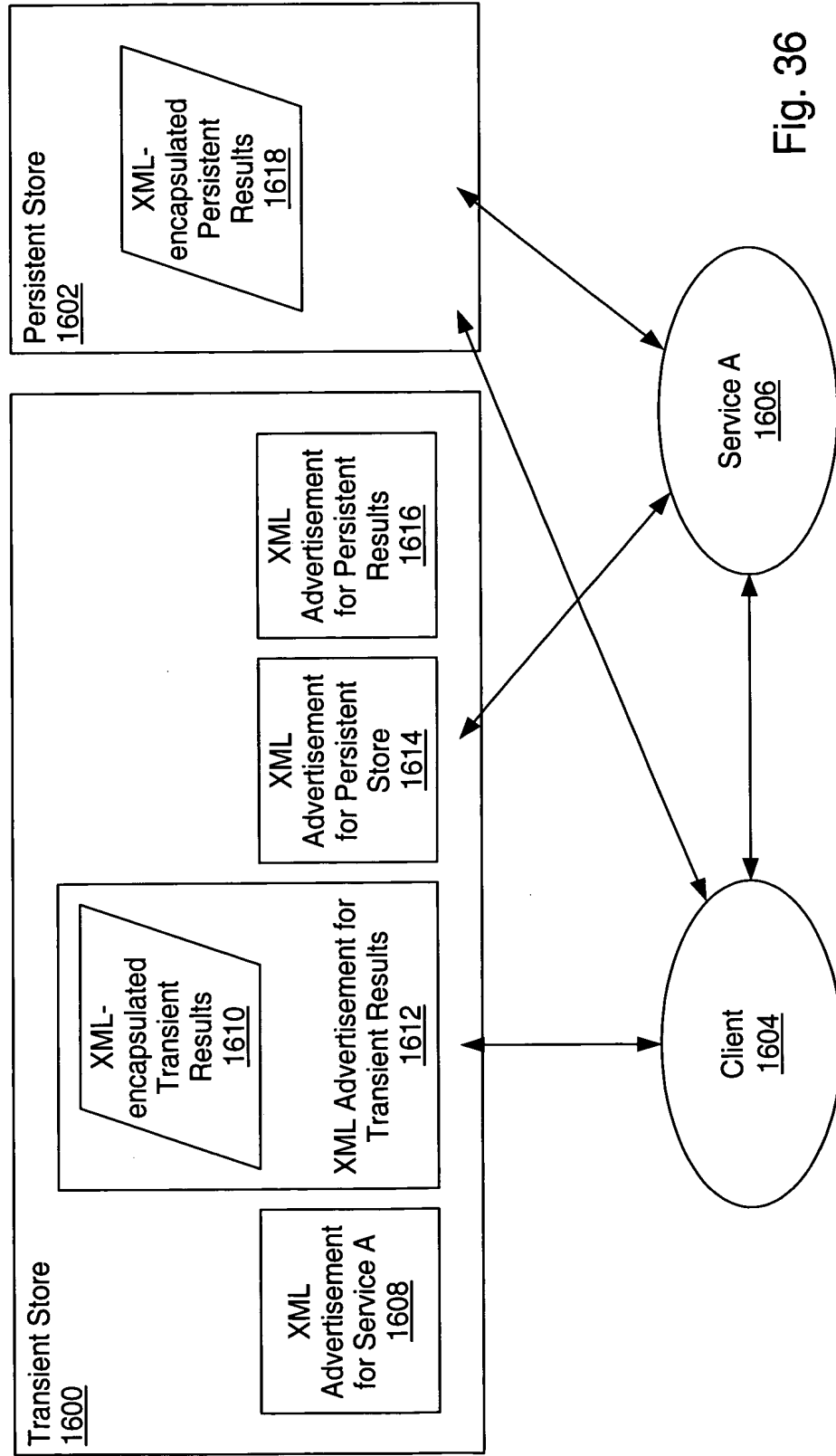


Fig. 36



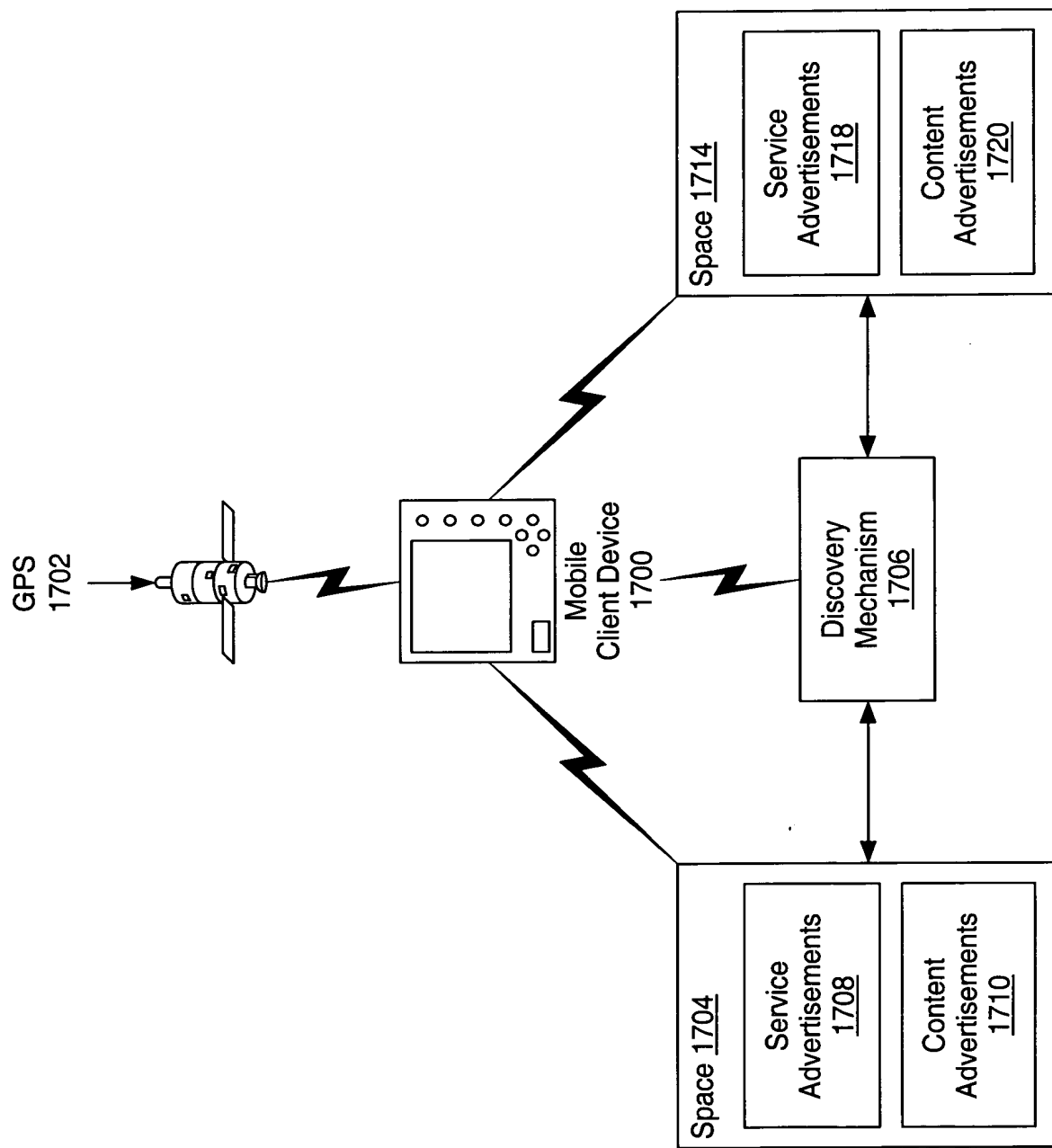
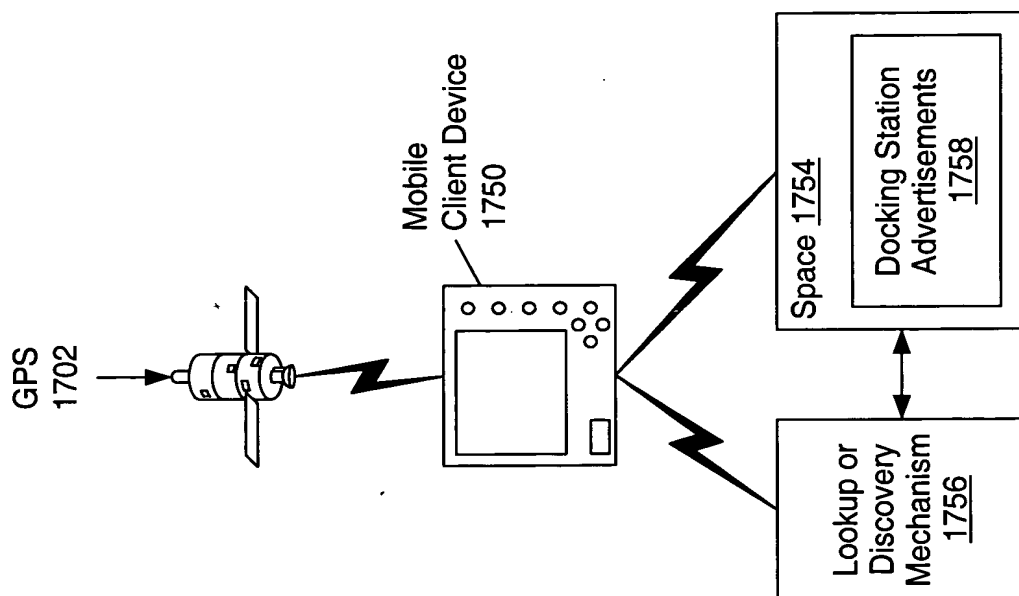
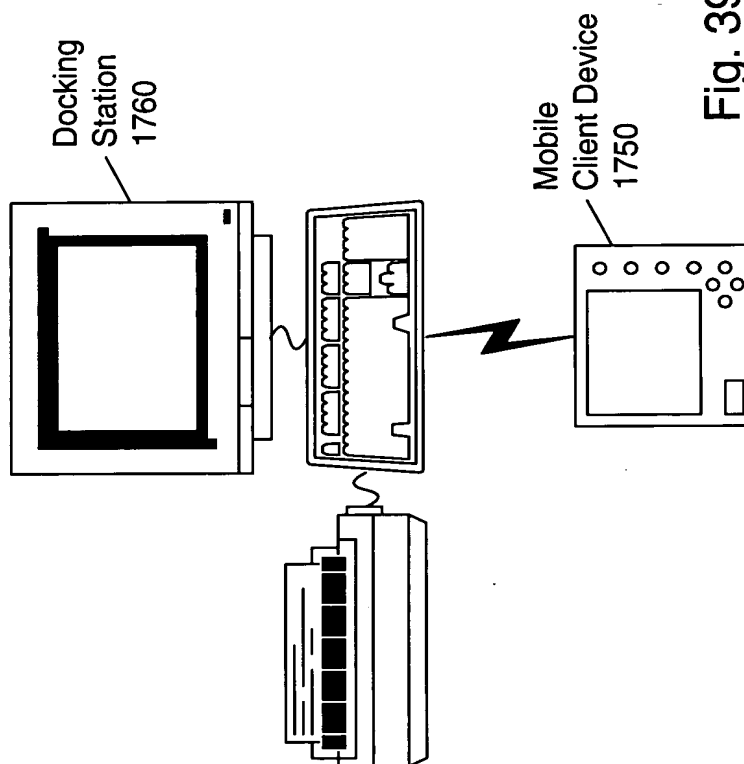


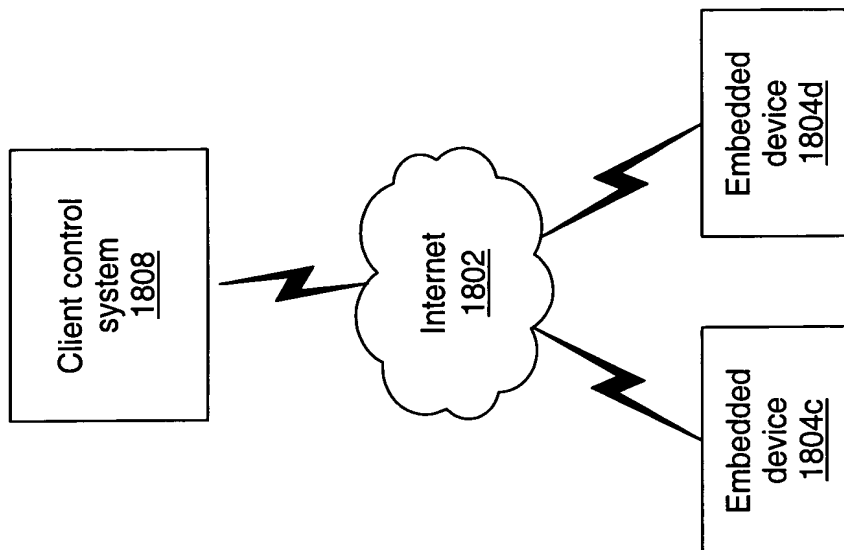
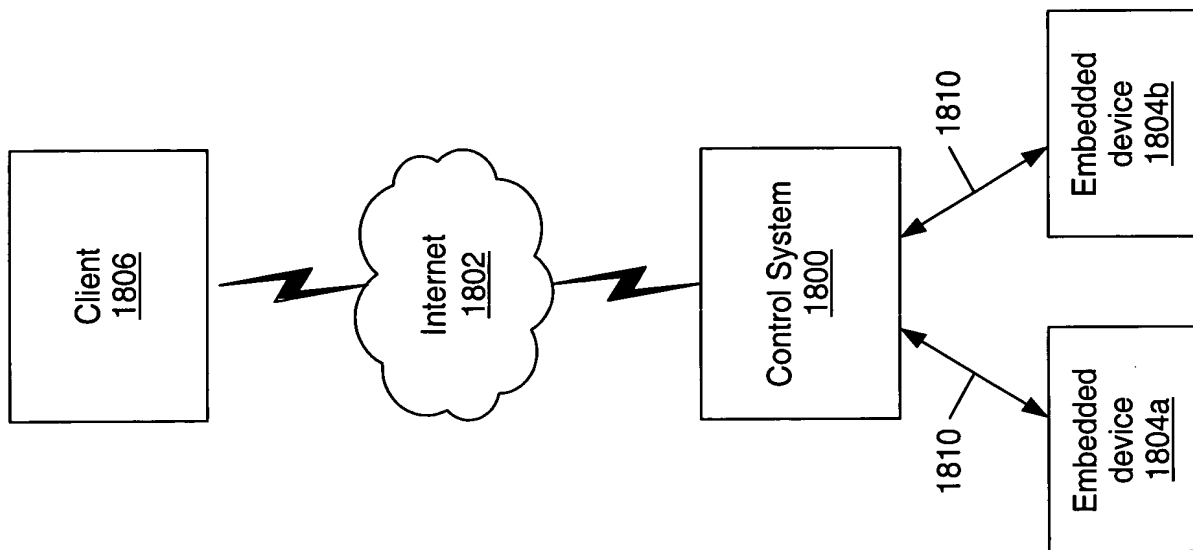
Fig. 38



**Fig. 39a**



**Fig. 39b**



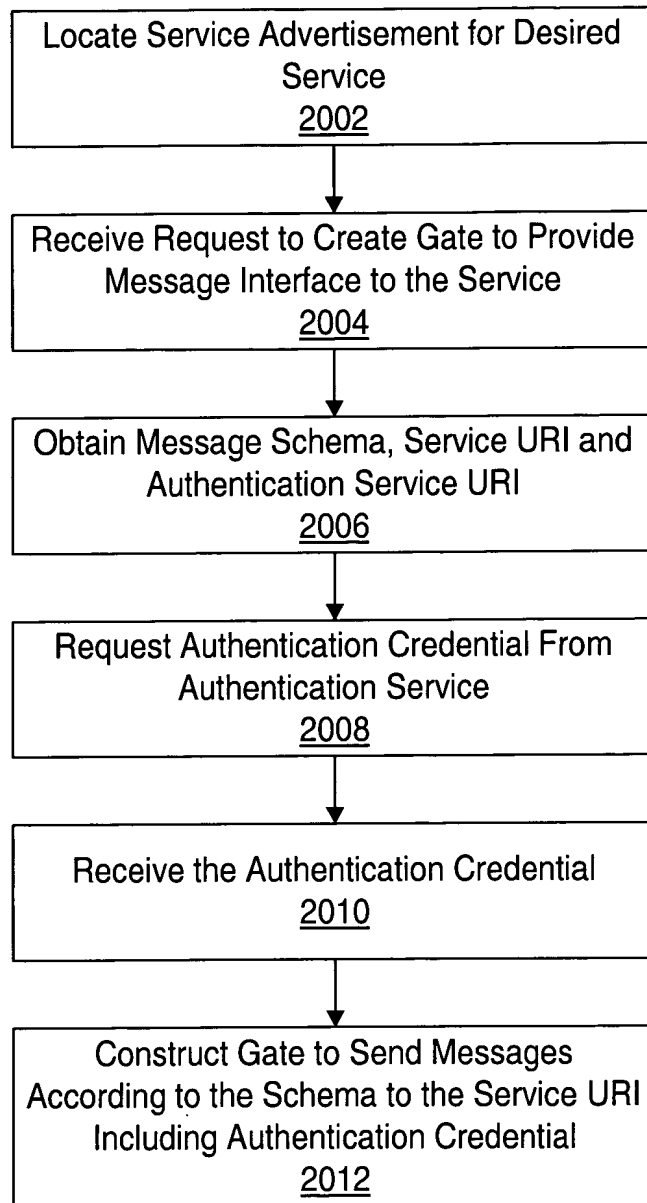


Fig. 41



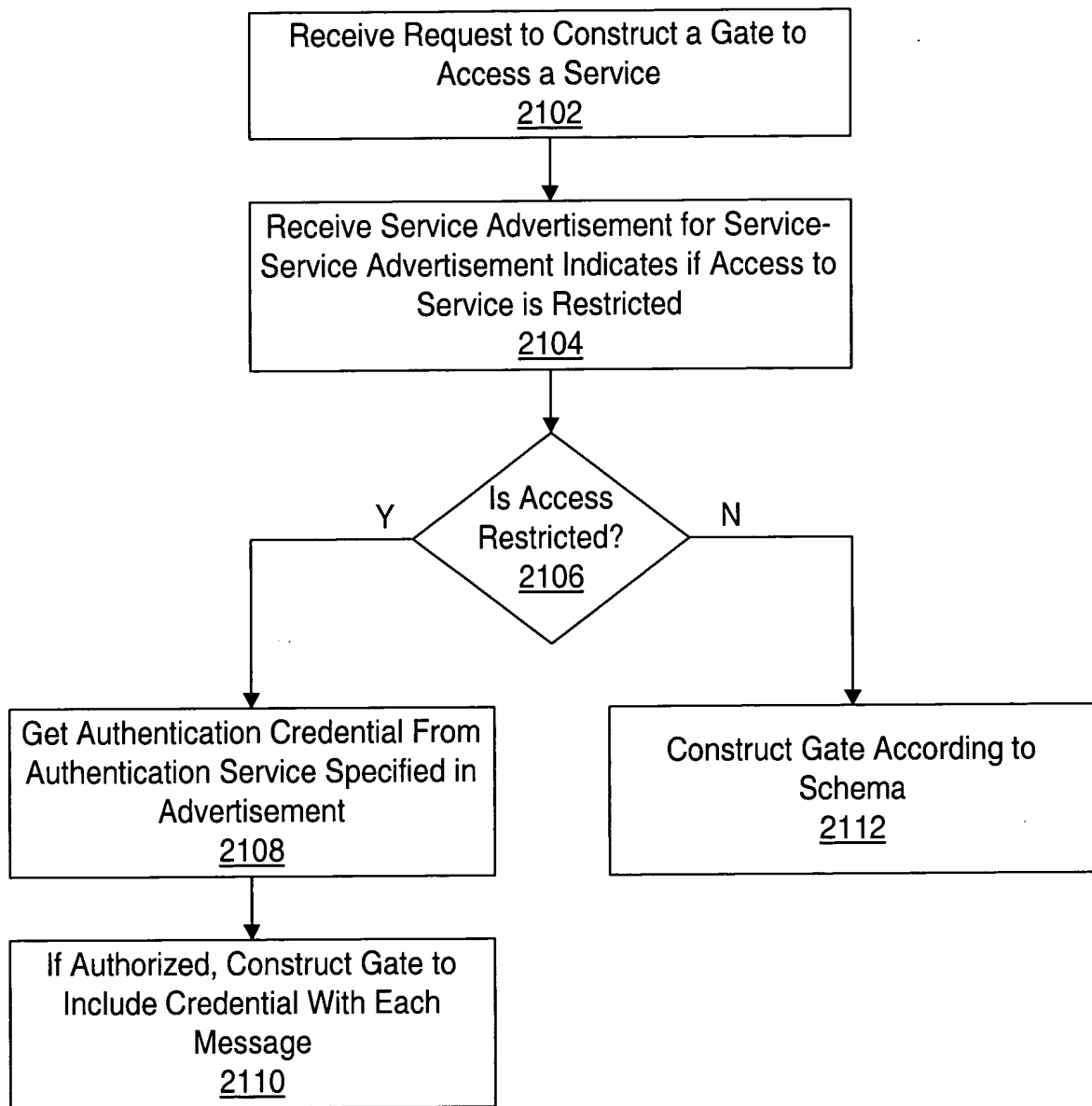


Fig. 42

```

graph TD
    2202[Receive Request to Construct Gate-Request  
May Indicate if Message Verification Desired  
2202] --> 2204[Access Service Advertisement  
2204]
    2204 --> 2206{Verification Desired?  
2206}
    2206 -- Y --> 2208[Download Schema and Service URI  
and Construct Gate to Verify  
Messages According to Schema  
2208]
    2206 -- N --> 2210[Download Service URI and  
Construct Gate With No Verification  
2210]

```

Fig. 43

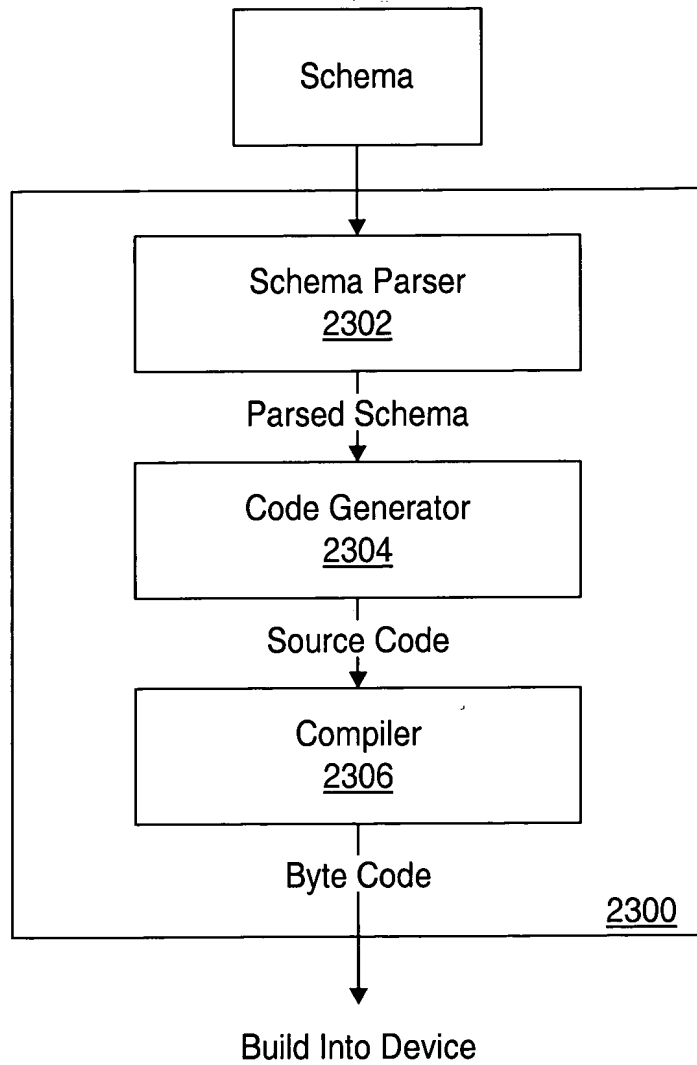


FIG. 44

```

graph TD
    2402[Locate Service Advertisement  
2402] --> 2404[Obtain Authentication Credential if  
Necessary and Receive Service URI  
From Advertisement  
2404]
    2404 --> 2406[Bind URI and/or Authentication  
Credential to Pre-generated  
Message Interface to Create Gate to  
Service  
2406]
    2406 --> 2408[Use Gate to Access Service  
2408]

```

FIG. 45